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OM protein - protein search, using SW model

Run on: February 1, 2005, 14:23:28 ; Search time 147 Seconds  
(without alignments)

594.776 Million cell updates/sec

Title: US-10-629-329A-2

Perfect score: 1322

Sequence: 1 MSGCDAGEGDCCSRRCGAQD.....SMKXVGLDSQLPVGENGIV 242

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1608061 seqs, 361289386 residues

Total number of hits satisfying chosen parameters: 1608061

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:\*

1: /cgns\_6\_ptodata/1/pubcaa/US07\_PUBCOMB.pep:\*

2: /cgns\_6\_ptodata/1/pubcaa/US06\_NEW\_PUB.pep:\*

3: /cgns\_6\_ptodata/1/pubcaa/US08\_NEW\_PUB.pep:\*

4: /cgns\_6\_ptodata/1/pubcaa/US06\_PUBCOMB.pep:\*

5: /cgns\_6\_ptodata/1/pubcaa/US07\_PUBCOMB.pep:\*

6: /cgns\_6\_ptodata/1/pubcaa/PCET\_NEW\_PUB.pep:\*

7: /cgns\_6\_ptodata/1/pubcaa/US08\_PUBCOMB.pep:\*

8: /cgns\_6\_ptodata/1/pubcaa/US08\_PUBCOMB.pep:\*

9: /cgns\_6\_ptodata/1/pubcaa/US09A\_PUBCOMB.pep:\*

10: /cgns\_6\_ptodata/1/pubcaa/US09C\_PUBCOMB.pep:\*

11: /cgns\_6\_ptodata/1/pubcaa/US09C\_PUBCOMB.pep:\*

12: /cgns\_6\_ptodata/1/pubcaa/US09\_NEW\_PUB.pep:\*

13: /cgns\_6\_ptodata/1/pubcaa/US10A\_PUBCOMB.pep:\*

14: /cgns\_6\_ptodata/1/pubcaa/US10B\_PUBCOMB.pep:\*

15: /cgns\_6\_ptodata/1/pubcaa/US10C\_PUBCOMB.pep:\*

16: /cgns\_6\_ptodata/1/pubcaa/US10D\_PUBCOMB.pep:\*

17: /cgns\_6\_ptodata/1/pubcaa/US10\_NEW\_PUB.pep:\*

18: /cgns\_6\_ptodata/1/pubcaa/US11\_NEW\_PUB.pep:\*

19: /cgns\_6\_ptodata/1/pubcaa/US60\_NEW\_PUB.pep:\*

20: /cgns\_6\_ptodata/1/pubcaa/US60\_PUBCOMB.pep:\*

Pred. No. 18 is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB ID	Description
1	1322	100.0	242	15	US-10-629-329A-2	Sequence 2, Appli
2	1307	98.9	242	14	US-10-220-381-2	Sequence 2, Appli
3	1296	98.0	242	15	US-10-381-710-4	Sequence 4, Appli
4	1239.5	93.8	241	15	US-10-381-710-2	Sequence 4, Appli
5	1239.5	93.8	241	15	US-10-629-329A-4	Sequence 4, Appli
6	573.5	43.4	529	16	US-10-417-965-195546	Sequence 195546,
7	563	42.6	256	15	US-10-424-599-125363	Sequence 157170,
8	563	42.6	517	17	US-10-435-115-27317	Sequence 253963,
9	563	42.6	524	15	US-10-445-114-64486	Sequence 64486,
10	555	42.0	497	16	US-10-445-114-65135	Sequence 65135,
11	553	41.8	517	16	US-10-477-701-45914	Sequence 45914,
12	549	41.5	522	15	US-10-474-599-27317	Sequence 273717,
13	549	41.5	540	15	US-10-425-114-46221	Sequence 46271,

## ALIGNMENTS

RESULT 1

US-10-629-329A-2

; Sequence 2, Application US/10629329A

; Publication No. US20040086846A1

; GENERAL INFORMATION:

; APPLICANT: DARNAY, BRYANT G.

; TITLE OF INVENTION: METHODS AND COMPOSITIONS USING POLYNUCLEOTIDES AND POLYPEPTIDES OF RANK-ASSOCIATED INHIBITOR (RAIN)

; FILE REFERENCE: UTSC:761US

; CURRENT APPLICATION NUMBER: US/10/629,329A

; CURRENT FILING DATE: 2003-07-29

; PRIOR APPLICATION NUMBER: 60/399,205

; PRIOR FILING DATE: 2003-07-29

; NUMBER OF SEQ ID NOS: 23

; SOFTWARE: Patentin Ver. 2.1

; SEQ ID NO: 2

; LENGTH: 242

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-629-329A-2

Query Match Similarity 100.0%; Score 1322; DB 15; Length 242;

Best Local Matches 242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MSGCDAGEGDCCSRRCGAQDKERPHRYLIPKQFVHLGWTGTTGGATSLKHGDEIYTAP 60

Db 1 MSGCDAGEGDCCSRRCGAQDKERPHRYLIPKQFVHLGWTGTTGGATSLKHGDEIYTAP 60

Qy 61 SSVYQKERIQPEMFCDINEKDISGPSPSKKLKKSQTPLFNAYTMRGAGAVITHSKA 120

Db 61 SSVYQKERIQPEMFCDINEKDISGPSPSKKLKKSQTPLFNAYTMRGAGAVITHSKA 120

Qy 121 AVNATLLFPGRERFKITHQEMIKGIKCTSGGYRYYDDMLVPIENTPEEKLKDRMHA 180

Db 121 AVNATLLFPGRERFKITHQEMIKGIKCTSGGYRYYDDMLVPIENTPEEKLKDRMHA 180

Qy	181	MNEYPDSCAVLYRRHGVYVWGETWEAKTMCECYDYLFDIAVSMKKVGLDPQLPVGNG	240
Db	181	MNEYPDSCAVLYRRHGVYVWGETWEAKTMCECYDYLFDIAVSMKKVGLDPQLPVGNG	240
Qy	241	IV	242
Db	241		
Qy	241	IV	242
Db	241	IV	242
RESULT 2			
US-10-220-381-2			
; sequence 2, Application US/10220381			
; Publication No. US20030207430A1			
; GENERAL INFORMATION:			
; APPLICANT: INCYTE GENOMICS, INC.			
; APPLICANT: TANG, Y. Tom			
; APPLICANT: LU, Duyng Aina M.			
; APPLICANT: BANDMAN, Olga			
; APPLICANT: YUE, Henry			
; APPLICANT: AZIMZAI, Yalda			
; APPLICANT: LAL, Preeti			
; APPLICANT: BURFORD, Neil			
; APPLICANT: BAUGHN, Mariah R.			
; TITLE OF INVENTION: HUMAN ENZYME MOLECULES			
; FILE REFERENCE: PF-0763 PCT			
; CURRENT APPLICATION NUMBER: US/10/220,381			
; CURRENT FILING DATE: 2001-03-01			
; NUMBER OF SEQ ID NOS: 52			
; SOFTWARE: PERL Program			
; SEQ ID NO: 2			
; LENGTH: 242			
; TYPE: PRT			
; ORGANISM: Homo sapiens			
; FEATURE:			
; NAME/KEY: misc feature			
; OTHER INFORMATION: Incyte ID No. US20030207430A1 2116390CD1			
US-10-220-381-2			
Query Match			
Best Local Similarity			
Matches 240; Conservative 0; Missmatches 2; Indels 0; Gaps 0			
Qy	1	MSGCDAGEGDCCSRRCGAQDKPEVKIPLCKQFYHLGGTGTGGGTSLKKGDEIYAP	60
Db	1	MSGCDAREGDCCSRRCGAQDKPEVKIPLCKQFYHLGGTGTGGGTSLKKGDEIYAP	60
Qy	61	SGVQKERTIQPEMVFCDINEKDISGPSPSKKLKGQCTSLFMAYTMRQAGAVIHTHSA	120
Db	61	SGVQKERTIQPEMVFCDINEKDISGPSPSKKLKGSOCTPLKCKQFYHLGGTGTGGGTSLKKGDEIYAP	120
Qy	121	AVMATLIFPGREFKITHQEMIKGKKTCTGGYYRDDMLVVP11ENTPBEKGJLDRHAA	180
Db	121	AVMATLIFPGREFKITHQEMIKGKKTCTGGYYRDDMLVVP11ENTPBEKGJLDRHAA	180
Qy	181	MNEYPDSCAVLYRRHGVYVWGETWEAKTMCECYDYLFDIAVSMKKVGLDPQLPVGNG	240
Db	181	MNEYPDSCAVLYRRHGVYVWGETWEAKTMCECYDYLFDIAVSMKKVGLDPQLPVGNG	240
Qy	241	IV	242
Db	241	IV	242
RESULT 3			
US-10-381-710-4			
; Sequence 4, Application US/10381710			
; Publication No. US20040052789A1			
; GENERAL INFORMATION:			
; APPLICANT: SHA, Shiken et al.			
; TITLE OF INVENTION: NOVEL PROTEINS, GENES ENCODING THEM AND METHOD OF USING			
; FILE REFERENCE: P-230-019P			
; CURRENT APPLICATION NUMBER: US/10/381,710			

FEATURE:  
OTHER INFORMATION: Clone ID: PAT\_MRT4530\_91484C.1.pep  
US-10-437-963-195546

RESULT 5  
US-10-629-329A-4  
Sequence 4, Application US/10629329A  
Publication No. US20040086848A1  
GENERAL INFORMATION  
APPLICANT: DARNY, BRYANT G.  
TITLE OF INVENTION: METHODS AND COMPOSITIONS USING POLYNUCLEOTIDES AND POLYPEPTIDES OF RANK-ASSOCIATED INHIBITOR (RAIN)  
FILE REFERENCE: UTSC:761US  
CURRENT APPLICATION NUMBER: US/10/629, 329A  
CURRENT FILING DATE: 2003-07-29  
PRIOR APPLICATION NUMBER: 60/399, 205  
PRIOR FILING DATE: 2002-07-29  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 4  
LENGTH: 241  
TYPE: PRT  
ORGANISM: Mus musculus  
US-10-629-329A-4

Query Match 93.8%; Score 1239.5; DB 15; Length 241;  
Best Local Similarity 93.8%; Pred. No. 1.8e-120;  
Matches 27; Conservative 9; Mismatches 5; Indels 1; Gaps 1;

Qy 1 MSGCDAGEGDCSSRRCGAQDKEPHRVLPFLCKQFYHLGWTGTGGGISLXHGDEIYIAP 60  
Db 1 MSGCQA-QGDCCSRPCQDKEPHRVLPFLCKQFYHLGWTGTGGGISLXHGNEIYIAP 59

Qy 61 SGVQKERIOPEDMFVCDINEKUDISGPSSKKURKSQCTPLFNAYTMRGAGAVITHSKA 120  
Db 60 SGVQKERIOPEDMFVCDINEQDISGPSSKKURKSQCTPLFNAYTMRGAGAVITHSKA 119

Qy 121 AYMATLIFPGREFKITHOBMIKIKCTSGGYYRDMLVPIENTPEEKGLKDRMHA 180  
Db 120 AYMATLIPPGQEPKITHOBMIKIKCTSGGYYRDMLVPIENTPEEKGLKDRMHA 179

Qy 181 MNEYPDSCAVLYVRHGYWVGETWEKARTMCYCDDYLFDIAVSMKVGQLDPSQLPVGENG 240  
Db 180 MNEYPDSCAVLYVRHGYWVGETWEKARTMCYCDDYLFDIAVSMKVGQLDPSQLPVGENG 239

Qy 241 IV 242  
Db 240 IV 241

RESULT 6  
US-10-437-963-195546  
Sequence 195546, Application US/10437963  
Publication No. US20040123343A1  
GENERAL INFORMATION  
APPLICANT: La Rosa, Thomas J.  
APPLICANT: Kovacic, David K.  
APPLICANT: Zhou, Yihua  
APPLICANT: Cao, Yongwei  
APPLICANT: Wu, Wei  
APPLICANT: Boukharov, Andrey A.  
APPLICANT: Barbazuk, Brad  
APPLICANT: Li, Ping  
TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With Title of Invention Plants and Uses Thereof for Plant Improvement  
FILE REFERENCE: 38-21(53221)B  
CURRENT APPLICATION NUMBER: US/10/437, 963  
CURRENT FILING DATE: 2003-05-14  
NUMBER OF SEQ ID NOS: 204966  
SEQ ID NO 195546  
LENGTH: 529  
TYPE: PRT  
ORGANISM: Oryza sativa

FEATURE:  
OTHER INFORMATION: Clone ID: PAT\_MRT3847\_112946C.1.pep  
US-10-424-599-157170

RESULT 7  
US-10-424-599-157170  
Sequence 157170, Application US/10424599  
Publication No. US2004031072A1  
GENERAL INFORMATION  
APPLICANT: La Rosa, Thomas J.  
APPLICANT: Kovacic, David K.  
APPLICANT: Zhou, Yihua  
APPLICANT: Cao, Yongwei  
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With Title of Invention Plants and Uses Thereof for Plant Improvement  
FILE REFERENCE: 38-21(53223)B  
CURRENT APPLICATION NUMBER: US/10/424, 599  
CURRENT FILING DATE: 2003-04-28  
NUMBER OF SEQ ID NOS: 285684  
SEQ ID NO 157170  
LENGTH: 256  
TYPE: PRT  
ORGANISM: Glycine max  
FEATURE:  
OTHER INFORMATION: Clone ID: PAT\_MRT3847\_112946C.1.pep  
US-10-424-599-157170

Query Match 42.6%; Score 563; DB 15; Length 256;  
Best Local Similarity 51.3%; Pred. No. 6.4e-50;  
Matches 117; Conservative 31; Mismatches 58; Indels 22; Gaps 7;

Qy 25 RYLIPLPKFYHLGWTGTGGGISLX-HGDE-----IVIAPSQYOKERIOPEDMFVCI 76  
Db 26 RILISSELCRHYSLGWVSGTGSITIKVHODISKPHQLIUMSPGVQKERMPEPDNYVL 85

Qy 77 DINEKDISGPSPS---KCLKKSQTPLFMAYTMRGAGAVITHSKAAYNATLLFP-GR 131  
Db 86 SHTGGSVLSAPS PKPYPHKPPRKCSDCGPLEMKAYMCDAGVTHSHGIESCLVMLNPLAK 145

Qy 132 EFKITHOBMIKIKCTSGGYYRDMLVPIENTPEEKGLKDRMHA NEYPDSCAVL 191  
Db 146 EFKITHAMIGIK--GHGY--DELVPIENTAYEELTESLAKAIEAYPKTAVL 199

Qy 192 VRRHGYWVGETWEKARTMCYCDDYLFDIAVSMKVGQLD--PSQLPV 236  
Db 200 VRNHGTYIWGDWSWIAKTOAECHYLFDAATKLHQOLDWSTPNHVPI 247

RESULT 8  
 US-10-425-115-253963 Application US/10425115  
 ; Sequence 253963, Application US/10425115  
 ; Publication No. US20040214272A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: La Rosa, Thomas J.  
 ; APPLICANT: Kovacic, David K.  
 ; APPLICANT: Zhou, Yihua  
 ; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
 ; TITLE OF INVENTION: Plants  
 ; FILE REFERENCE: 38-21(53222)B  
 ; CURRENT APPLICATION NUMBER: US/10/425,115  
 ; CURRENT FILING DATE: 2003-04-28  
 ; NUMBER OF SEQ ID NOS: 369326  
 ; SEQ ID NO: 253963  
 ; LENGTH: 517  
 ; TYPE: PRT  
 ; ORGANISM: Zea mays  
 ; FEATURE:  
 ; OTHER INFORMATION: Clone ID: MRT4577\_163196C.1.pep  
 US-10-425-115-253963

Query Match 42.6%; Score 563; DB 15; Length 524;  
 Best Local Similarity 47.0%; Pred. No. 1.7e-45;  
 Matches 118; Conservative 31; Mismatches 68; Indels 34; Gaps 6;  
 Qy 2 SGCDAGEGDCCSRQGAQDKE-----HPRYLIPELCKORYHGWVTTGGGSLKH 52  
 Db 11 SGCS----CEAAVGAMASEAYLEGAVPARELVAELCRHFYAQGWVTTGGGSLTKV 64  
 Qy 53 GDE-----IYIAPSGYOKERIOPEDMFVCDINEKDISGPS---PSKLLKKSQCTPL 100  
 Db 65 NDPAVPLADRLLIVMSPGYSQKERNVADNYVMAADGKVLSAPVAKPNPKTCPDAPL 124  
 Qy 101 FMNAYTMRGAGAVITHSKAVMATLFFPG-REFKITHOEMIKGIKCTSGGYRYDDML 159  
 Db 125 FMKAYLMRGAGAVIHSQGETCIATMLIPGAKERFVTHMEMIKG-----HGYHDEL 178  
 Qy 160 VPIIPIENTPEEKGLKDRMAHAMNEYPDSCAVLVRHGTYYWGETWEKATMCECYDYLFD 219  
 Db 179 VPIIPIENTPEXYELTDLSLESEAIAAVPKATAVLVRNHHGTYYWGESWINAKTQAECYHYLLD 238  
 Qy 220 IAVSMRKVGLD 230  
 Db 239 ACIKLYQLGID 249

RESULT 10  
 US-10-425-114-65135 Application US/10425114  
 ; Sequence 65135, Application US/10425114  
 ; Publication No. US20040034888A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Liu, Jingdong  
 ; APPLICANT: Zhou, Yihua  
 ; APPLICANT: Kovacic, David K.  
 ; APPLICANT: Screen, Steven E  
 ; APPLICANT: Tabaska, Jack E  
 ; APPLICANT: Cao, Yongwei  
 ; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
 ; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
 ; FILE REFERENCE: 38-21(53313)B  
 ; CURRENT APPLICATION NUMBER: US/10/425,114  
 ; CURRENT FILING DATE: 2003-04-28  
 ; NUMBER OF SEQ ID NOS: 73128  
 ; SEQ ID NO: 65135  
 ; LENGTH: 497  
 ; TYPE: PRT  
 ; ORGANISM: Zea mays  
 ; FEATURE:  
 ; OTHER INFORMATION: Clone ID: UC-ZMFLIMO17103D03\_FLI.pep  
 US-10-425-114-65135

Query Match 42.0%; Score 555; DB 15; Length 497;  
 Best Local Similarity 50.0%; Pred. No. 1.1e-48;  
 Matches 114; Conservative 32; Mismatches 61; Indels 20; Gaps 5;  
 Qy 17 GAOQDEHPRYLIPELCKORYHGWVTTGGGSLKHDE-----TYIAPSGYQKERI 68  
 Db 3 GAFVRE ARELVAELCRHFYAQGWVTTGGGSLTKVNDPAPVPLDRLLIMSPGVQKERM 61  
 Qy 69 OPEDMFVCDINEKDISGPS---PSKLLKKSQCTPLFEMIAYTRMGAGAVITHSKAAYNA 124  
 Db 62 VAEDMYVMAADGKVLSAPVAKPNPKTCPDAPLFMKAYLMRGAHVSHGG-BTCIA 121  
 Qy 125 TLLFFPG-REFKITHOEMIKGIKCTSGGYRYDDMLVPILENTEPEEKGLKDRMAHAMNE 183  
 Db 122 TMLLPGAKERFVTHMEMIKG-----HGYHDELVPIENTPEYELTDLSLAAIA 175  
 Qy 184 YPDSCAVLVRHGTYYWGETWEKATMCECYDYLFDIAVSMKKVGLD 230  
 Db 176 YPKATAVLVRNHHGTYYWGESWINAKTQAECYHYLLDACKYQLGID 222

RESULT 11  
 US-10-425-114-64486 Application US/10425114  
 ; Sequence 64486, Application US/10425114  
 ; Publication No. US20040034888A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Liu, Jingdong  
 ; APPLICANT: Zhou, Yihua  
 ; APPLICANT: Kovacic, David K.  
 ; APPLICANT: Screen, Steven E  
 ; APPLICANT: Tabaska, Jack E  
 ; APPLICANT: Cao, Yongwei  
 ; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
 ; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
 ; FILE REFERENCE: 38-21(53313)B  
 ; CURRENT APPLICATION NUMBER: US/10/425,114  
 ; CURRENT FILING DATE: 2003-04-28  
 ; NUMBER OF SEQ ID NOS: 73128  
 ; SEQ ID NO: 64486  
 ; LENGTH: 524  
 ; TYPE: PRT  
 ; ORGANISM: Zea mays  
 ; FEATURE:  
 ; OTHER INFORMATION: Clone ID: LIB3060-104-F8\_FLI.pep  
 US-10-425-114-64486

RESULT 12  
 US-10-767-701-45914

Sequence 45914, Application US/10767701  
 GENERAL INFORMATION:  
 Publication No. US20040172664A1  
 APPLICANT: Kovacic, David K.  
 APPLICANT: Zhou, Yihua  
 APPLICANT: Cao, Yongwei  
 TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with Plant Improvement  
 FILE REFERENCE: 38-21(5353)B  
 CURRENT FILING DATE: 2004-01-29  
 NUMBER OF SEQ ID NOS: 63128  
 SEQ ID NO 45914  
 LENGTH: 517  
 TYPE: PRT  
 ORGANISM: Sorghum bicolor  
 FEATURE: OTHER INFORMATION: Clone ID: SORBI-28MAY03-C2601\_1.pep  
 us-10-767-701-45914

Query Match 41.8%; Score 553; DB 16; Length 517;  
 Best Local Similarity 46.1%; Pred. No. 1.8e-18; Matches 117; Conservative 34; Mismatches 71; Indels 32; Gaps 7;

Qy 9 GDC-CSRGQAQDEK-----HPLIPPLCOPFLKQHGMVTTGGGSLRKHGD-----55  
 Db 4 GGCSCCAAVGATASEAVLEGEVREARELVAELCRFYAQGRVTTGGGSRIVKNDPAPV 63

Qy 56 -----IYIAPSGVQKERIOPEDMFVCDINEKDISGPS-----PSKKLKKSQCTPLEMNAYT 106  
 Db 6 4 LADRLLWNSPCKQERMVAAEDMYNAADGKVLSAPVAKPWNPKPCKTCAPLFMKAYL 123

Qy 107 MRGAGAVIINTHSSKAAMNATLPPG-REFKITHQEMKGKIKCTSGGGYRYDDMLVPIIE 165  
 Db 124 MRGAGAVIINTHSIGMETCATMLNPAGEKFTRTHMEMIKIG-----HGVRDELIVPIE 177

Qy 166 NTPEEKGLKDKRMAHANNEYPDSCAVLVRHGVYVWGFTEKAKTMGBCDYLFDFIAVSMK 225  
 Db 178 NTPYEYLTDISSEATAYPKATAVLVRNHGlyWGDSWINAKTQECHYLLDACKLY 237

Qy 226 KVGLD----PSQLPV 236  
 Db 238 QLGIDWTPHEHGPi 251

RESULT 12  
 US-10-424-599-273717  
 Sequence 273717, Application US/10424599  
 GENERAL INFORMATION:  
 Publication No. US20040031072A1  
 APPLICANT: La Rosa, Thomas J.  
 APPLICANT: Kovacic, David K.  
 APPLICANT: Zhou, Yihua  
 APPLICANT: Cao, Yongwei  
 TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with Plant Improvement  
 FILE REFERENCE: 38-21(5322)B  
 CURRENT FILING DATE: 2003-04-28  
 NUMBER OF SEQ ID NOS: 285684  
 LENGTH: 522  
 TYPE: PRT  
 FEATURE: OTHER INFORMATION: Clone ID: PAT\_MRT18047\_89188C.1.pep  
 us-10-424-599-273717

Query Match 41.5%; Score 549; DB 15; Length 522;  
 Best Local Similarity 51.3%; Pred. No. 4.9e-18; Matches 117; Conservative 29; Mismatches 60; Indels 22; Gaps 7;

Qy 25 RYLIPELKQFYHLGWTGGGISLK-HGDB-----IYAPSGVQKERIOPEDMFVC 76  
 Db 47 RALMAELCRHYTLGWTGGGISLK-HGDB-----IYAPSGVQKERIOPEDMFVC 106

Qy 77 DINEKDISGPSPS-----KKLKKSQCTPLEMNAYTMRGAGAVIINTHSSKAAMNATLPP-GR 131  
 Db 107 SHSGSVLISAPPKWPWKPPKCSDDPLFKAYERDAAVFHSIGESCLVTMINPLSK 166

Qy 132 EFKITHQEMKGKIKCTSGGGYRYDDMLVPIIEKAKTMGBCDYLFDFIAVSMK 191  
 Db 167 EFRITHEMMIKIK-----GHGVY-----DELVVPNTIETAYQOLTESPAKATEDPKATAV 220

Qy 192 VRRHGVYVWGFTEKAKTMGBCDYLFDFIAVSMKVGLD----PSQLPV 236  
 Db 221 VRNHGVFVWGSWISAKTQSECYHLLFDAAALKLHQMDLWSTPNHGPi 268

RESULT 14  
 US-10-425-115-53964  
 Sequence 253964, Application US/10425115  
 Publication No. US20040214272A1  
 GENERAL INFORMATION:  
 APPLICANT: La Rosa, Thomas J.  
 APPLICANT: Kovacic, David K.  
 APPLICANT: Zhou, Yihua  
 APPLICANT: Cao, Yongwei  
 TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with Plants  
 TITLE OF INVENTION: Plants

Qy 25 RYLIPELKQFYHLGWTGGGISLK-HGDB-----IYAPSGVQKERIOPEDMFVC 76

FILE REFERENCE: 38-21 (53222) B  
; CURRENT APPLICATION NUMBER: US/10/425,115  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 369326  
; SEQ ID NO: 5693964  
; LENGTH: 594  
; TYPE: PRT  
; FEATURE: Zea mays  
; OTHER INFORMATION: Clone ID: MRT4577\_163197C.1.pep  
US-10-425-115-253964

Query Match Score 514.5; DB 17; Length 594;  
Best Local Similarity 36.0%; Pred. No. 2.3e-44;  
Matches 118; Conservative 31; Mismatches 68; Indels 111; Gaps 7;

Qy 2 SGCDAGBCDCCSRRCGAQDE -----  
Db 4 SGCS-----CEAVGAMASEAYLEGAPVREARELYAELCRHFAQGWVGTGESSITVK 57

Qy 53 GDE-----IYIAPSQVKERIOPEDMFCDINEKDISGPS---PSKLLKKSQCTPL 100  
Db 58 NDPTVPLADRILWMPSPQVKERMVAADGKVLSAPVAKPWNPKPKCTDCAPL 117

Qy 101 FMNAYTMRCAGAVTHTSKAAVMATLFLPG-REFKITHQEWTGKTKCCTSGGYRYDDML 159  
Db 118 FMKAYLMRAGAVTHSHGETCATMLIPGAKEFRVTHMEMIRGIG-  
Qy 160 VVPIENTPEEKGLKDRMAHANNEYPDSCAVLYRRHGVYNGBTWEKAUTM----- 210  
Db 172 VVPIENTPEEYELTDSSLETAAYPKATAVLVRNHGIVYWGESWINAKTOACFGRDXQ 231

Qy 211 -----  
Db 232 IKDFIWMTLKPFELDHASFRKRNTMMLYHIFMGSLLILQSFLVIIIRTDLVLAGGTWGRNS 291

Qy 211 -----CCECYDYLFDIAVSMRKVLD 230  
Db 292 LTPAFCREAECYHYLLIDACIKLYQLGID 319

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RESULT 15  
US-10-425-114-61505  
; Sequence 61505, Application US/10425114  
; Publication No. US2004003488A1  
; GENERAL INFORMATION:  
; APPLICANT: Liu, Jingdong  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Screen, Steven E  
; APPLICANT: Tabaska, Jack E  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53313).B  
; CURRENT APPLICATION NUMBER: US/10/425,114  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 73128  
; SEQ ID NO: 61505  
; LENGTH: 459  
; TYPE: PRT  
; ORGANISM: Zea mays  
; FEATURE: OTHER INFORMATION: Clone ID: LIB143-005-F3\_FLI\_pep  
US-10-425-114-61505

Query Match 35.4%; Score 467.5; DB 15; Length 459;  
Best Local Similarity 51.7%; Pred. No. 1.e-39;  
Matches 93; Conservative 27; Mismatches 49; Indels 11; Gaps 3;

Qy 56 IYIAPSQVKERIOPEDMFCDINEKDISGPS---PSKLLKKSQCTPLFMNAYTMRGAG 111  
Db 11 IVMSPSGVKERMVAADGKVLSAPVAKPWNPKPKCTDCAPLFRMAYLMRGAG 70